

MIL-C-81790A
AMENDMENT 1
30 December 1992

MILITARY SPECIFICATION

CONNECTORS, RECEPTACLE, EXTERNAL ELECTRIC POWER, AIRCRAFT
GENERAL SPECIFICATION FOR

This amendment forms a part of MIL-C-81790, dated 5 April 1990, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 2

Add the following military specification to the referenced documents on page 2, 2.1.1:

"MIL-P-85582

Primer Coatings, Water Borne"

PAGE 3

3.3: Delete the fourth sentence of paragraph 3.3 and substitute the following:

"Materials used in the construction of connectors, bases, covers and shields shall be fungus inert in accordance with requirement 4 of MIL-STD-454."

3.3.1: Delete the first sentence of paragraph 3.3.1 and substitute the following:

"Bases shall be fabricated using a fiber filled, impact resistant, polyethylene terephthalate material conforming to MIL-M-14 type SDI-30, an impact resistant fiber filled polyester material, or an impact resistant fiber filled epoxy material."

PAGE 4

3.3.2: Delete the last sentence of paragraph 3.3.2 and substitute the following:

"Coat with one coat of zinc chromate primer according to TT-P-1757 or with water borne epoxy primer according to MIL-P-85582."

3.4.1: Delete and substitute

"3.4.1. Contacts. Unless approved by the qualifying activity, the contact shall be designed from a one piece alloy material. Contacts must conform to the physical dimensions of this specification and related military standards (see 4.6.2)."

Add as new paragraph 3.4.1.7:

"3.4.1.7 Hardness of contacts. The hardness at all points on the sides of each pin shall be at least 86 to 100 Brinell or Rockwell B 40-56 (see 4.6.16)."

PAGE 5

3.6.1, line 3: Delete "4.8.1" and substitute "4.6.12."

PAGE 6

3.7.2: Delete entire paragraph.

PAGE 8

4.4.2: Add the following between the first and second sentences:

"An additional two specimens may be used for fungus resistance testing if required."

4.5.1, line 3: Delete "4.9" and substitute "4.6.15."

PAGE 9

Table I, 2nd column: Delete "4.7" and substitute "4.6.12."

Table I, 2nd column: Delete "4.10.15" and substitute "4.6.14."

Add to the end of Table I:

<u>Title</u>	<u>Test Paragraph Number</u>	<u>Requirement Paragraph Number</u>	<u>Receptacle Assemblies</u>
Hardness of contacts	4.6.16	3.4.1.7	X

PAGE 13

4.6.9, last sentence: Delete and substitute "Certification to requirement 4 of MIL-STD-454 is required."

PAGE 14

4.6.13, line 6 and line 9: Delete "4.6.16" and substitute "4.6.15."

Add as new paragraph 4.6.16:

"4.6.16 Hardness of contacts. Contacts shall be tested for compliance with the requirements of 3.4.1.7 at a minimum of three (3) points on one pin of each size with a 500 kilogram load and a 10 millimeter ball (for Brinell testing). For Rockwell testing use a standard Rockwell B hardness tester."

5.1, second sentence: Delete and substitute

"Terminal hardware may be separately bagged and packaged with the item or may be supplied attached to the terminals."

PAGE 15

6.4: Delete "STAGNAG" and substitute "STANAG"

PAGE 16

In the third sentence delete "Naval Avionics Center" and substitute "Naval Air Warfare Center Aircraft Division Indianapolis"

PAGE 17

Figure 1: Delete "4.5.1" and substitute "4.3.1."

PAGE 23

Review Activities: Delete "Navy-AS."

Custodian:
Navy - AS
Army - CR
Air Force - 85

Preparing Activity:
Navy-AS

(Project 5935-3882)

Review activities:
Army - AV
Air Force - 99